

CLIMA CONTROL NET 145



MEMBRANE WITH VARIABLE VAPOUR DIFFUSION AND REINFORCEMENT GRID

ENERGY RECONDITIONING

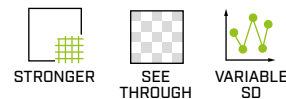
Ideal to increase energy performance for packages and solutions for re-conditioning of existing structures.

VARIABLE DIFFUSION

Variable resistance to vapour diffusion: maximum protection for walls and excellent reliability in insulation.

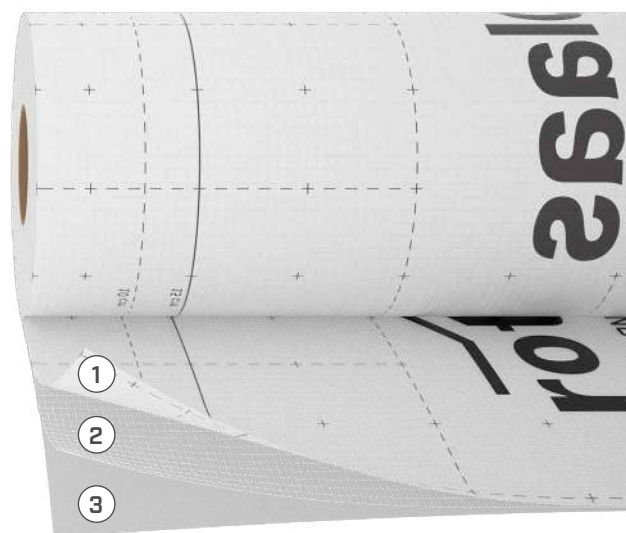
BLOWING

The reinforcement grid offers great resistance to the membrane, even in the event of pressure caused by the insulating material being blown.



COMPOSITION

- ① top layer: PA functional film
- ② reinforcing layer: reinforcing PE grid
- ③ bottom layer: non-woven PP fabric



CODES AND DIMENSIONS

CODE	description	tape	H [m]	L [m]	A [m²]	H [ft]	L [ft]	A [ft²]	
CLIMA145	CLIMA CONTROL NET 145	-	1,5	50	75	5	164	807	36



REINFORCING GRID

The reinforcement grid ensures excellent dimensional stability even when laid on a soft, non-continuous support and therefore with possible mechanical stresses.

SAFETY

During installation of the insulation layer by means of blowing, mechanical stresses are applied which the reinforcement grid can compensate for.

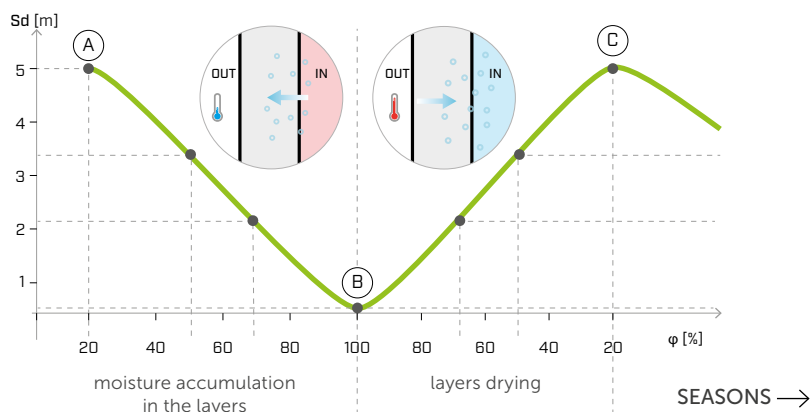
TECHNICAL DATA

Properties	standard	value	USC units
Mass per unit area	EN 1849-2	145 g/m ²	0.48 oz/ft ²
Thickness	EN 1849-2	0,6 mm	24 mil
Variable water vapour transmission (Sd)	EN 1931/EN ISO 12572	0,15/5 m	23/0.7 US Perm
Tensile strength MD/CD	EN 12311-2	> 440/400 N/50 mm	50/46 lbf/in
Elongation MD/CD	EN 12311-2	> 15/15 %	-
Resistance to nail tearing MD/CD	EN 12310-1	> 300/250 N	67/56 lbf
Watertightness	EN 1928	compliant	-
Water vapour resistance:			
- after artificial ageing	EN 1296/EN 1931	compliant	-
- in the presence of alkalis	EN 1847/EN 12311-2	npd	-
Reaction to fire	EN 13501-1	class E	-
Resistance to penetration of air	EN 12114	< 0,02 m ³ /(m ² h50Pa)	< 0.001 cfm/ft ² at 50Pa
Resistance to temperature	-	-40/80 °C	-40/176 °F
Indirect exposure to UV rays	-	2 weeks	-
Thermal conductivity (λ)	-	approx. 0,2 W/(m K)	0.12 BTU/h·ft·°F
Specific heat	-	approx. 1700 J/(kg·K)	-
Density	-	approx. 245 kg/m ³	approx. 15 lbm/ft ³
Variable water vapour resistance factor (μ)	-	approx. 250/8333	approx. 0.75/25 MNs/g
VOC	-	0 %	-

Waste classification (2014/955/EU): 17 02 03.

USA and CA Properties	standard	value
Water vapour transmission (dry cup)(*)	ASTM E96/ E96M	1.86 US Perm 106 ng/(s·m ² ·Pa)
Water vapour transmission (wet cup)(*)	ASTM E96/ E96M	10.6 US Perm 605 ng/(s·m ² ·Pa)
Vapour barrier(*)	ASTM E 2178-13	compliant < 0.02 L/(sm ²) at 75Pa

(*)CLIMA CONTROL 145 belongs to the same product family as CLIMA CONTROL 80, making the results applicable to this product also.



- (A) DRY LAYERS: S_d 5 m**
maximum protection - vapour control layer to limit the passage of vapour in view of the season when moisture accumulates within the layers
- (B) HUMID LAYERS: S_d 0,15 m**
maximum breathability - breathable membrane to allow drying during the reverse steam diffusion phenomenon
- (C) DRY LAYERS: S_d 5 m**
maximum protection for the start of a new year and a new cycle



TRANSPARENCY

Easy to install thanks to the slightly transparent structure, it allows the interception of the underlying structure.